

PATENT

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

Applicants: Sheng C. Lou, et al.

Serial No.: (not yet assigned)

*Divisional of application Serial No.: 09731,126;  
filed 12/6/00; Examiner J. Parkin; Group Art Unit  
1648*

Filed: November 17, 2003

Title: MONOCLONAL ANTIBODIES TO  
HUMAN IMMUNODEFICIENCY VIRUS  
AND USES THEREOF

Attorney Docket No.: 6755.US.D1

Group Art Unit: (not yet assigned)

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**INFORMATION DISCLOSURE STATEMENT**

MS Patent Application  
Commissioner for Patents  
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Dear Sir:

The following information is submitted, pursuant to 37 CFR §§1.97-1.98 in accordance with Applicant's duty of disclosure under 37 CFR §1.56. This submission is not intended to constitute an admission that any patent, publication or other information cited herein is "prior art" as to the invention claimed. In accordance with 37 CFR §§1.97(g)-(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that other material information as defined by 37 CFR §1.56(a) exists.

Applicants submit herewith Form PTO-1449 listing the references known to them. Applicants respectfully request that the Examiner (1) initial each reference listed on the enclosed Form PTO-1449 indicating that the Examiner has considered and made those references of record in this application and (2) return a copy of the initialed Form PTO-1449 to Applicants. Copies of references were previously submitted in U.S. Serial No. 09/731,126, filed December 6, 2000, from which this divisional application claims priority.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits under 37 CFR §1.97(b). Accordingly, no charge is required.

Respectfully submitted,  
Sheng C. Lou, et al.

Cheryl L. Becker  
Cheryl L. Becker  
Registration No. 35,441  
Attorney for Applicants

ABBOTT LABORATORIES  
Customer No.: 23492  
Telephone: (847) 935-1729  
Facsimile: (847) 938-2623

DATE: November 17, 2003

SHEET 1 of 6

## Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <b>6755.US.D1</b>	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT(S) <b>Sheng C. Lou, et al.</b>	
		FILING DATE <b>November 17, 2003</b>	GROUP
(37 CFR 1.98 (b))			

## U.S.PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
A1	5612453 A	03/18/1997	Wolf Hans, et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLIC-ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS-LATION YES NO
B1	9014358 A	11/29/1990	PCT			
B2	034561 A	12/13/1989	EPO			
B3	19727943	09/24/1998	DE			
B4	9840744	09/17/1998	PCT Abstract			

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C1	Niedrig, M. et al., "Characterization of Murine Monoclonal Antibodies Directed Against the core Proteins of Human Immunodeficiency Virus Types 1 and 2," Journal of Virology, 65/8:4529-4533 (1991)
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C3	Zolla-Pazner, Susan, et al., "The Implication of Antigenic Diversity for Vaccine Development," Immunology Letters, 66/1-3: 159-164 (1999-03)

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STATEMENT BY APPLICANT

APPLICANT(S)

Sheng C. Lou, et al.

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(37 CFR 1.98 (b))

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
A1	4,886,742	12-12-89	Kortright, et al.			
A2	4,888,290	12-19-89	Kortright, et al.			
A3	5,173,399	12-22-92	Mehta, et al.			
A4	5,210,181	05-11-93	Butman, et al.			
A5	5,514,541	05-07-96	Butman, et al.			
A6	5,731,189	03-24-98	Zolla-Pazner, et al.			

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION	YES	NO
						YES		
B1	EP 0519866A1	12-23-92	EPO					
B2	WO 93/21346	10-28-93	WO					

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C1	Allain, et al., <i>The Lancet, Serological Markers in Early Stages of Human Immunodeficiency Virus Infection in Haemophiliacs</i> , ii:1233-1236 (1986)
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C24	Hunt, et al., <u>AIDS Research and Human Retroviruses, Envelope Sequence Variability and Serologic Characterization of HIV Type 1 Group O Isolates from Equatorial Guinea</u> , 13:995-1005 (1997)
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C36	Meyerhans, et al., <u>Cell, Temporal Fluctuations in HIV Quasispecies in Vivo are not Reflected by Sequential HIV Isolations</u> , 58:901-910 (1989)
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